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From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY 5 OCT 2004

PCT

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_8 LUG. 2004

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing (day/month/year)

02.07.2004

IMPORTANT NOTIFICATION

Applicant's or agent's file reference

Cal 86062

To:

ITALIE

Priority date (day/month/year)

International application No. PCT/EP 03/03784

International filing date (day/month/year) 11.04.2003

17.04.2002

Applicant

ISAGRO RICERCA S.R.L.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

Roche, S

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PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference Cal 86062 International application No: PCT/EP 03/03784 International filing 11.04.2003				ER ACTION	R ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
				g date <i>(daylmon</i>	th/year)	Priority date (day/month/year) 17.04.2002			
C07	nationa C69/		ent Classification (IPC) o	r both national classifi	cation and IPC				
		RIC	ERCA S.R.L.		· .	·			
1.	This Auth	inter ority	national preliminary e and is transmitted to	xamination report hathe applicant accord	as been prepa ling to Article 3	red by this In 36.	ternational Pr	eliminary Exa	mining
2.	This	REP	ORT consists of a tot	al of 6 sheets, inclu	iding this cove	r sheet.			
	⊠	bee	s report is also accom in amended and are to e Rule 70.16 and Sec	he basis for this rep	ort and/or shee	ts containing	rectifications	nd/or drawing made before	s which have this Authority
	The	se an	nexes consist of a tot	al of 11 sheets.		:			
3.	This	repo	rt conțains indications	s relating to the follo	wing items:	:	·.		
	1 ·		Basis of the opinior Priority	1			. •	,	
	 III IV		•	of opinion with rega	ard to novelty, i	nventive step	and industria	ıl applicability	
	٧	⊠	•	nt under Rule 66.2(a	a)(ii) with regar such statement	rd to novelty,	inventive step	or industrial	applicability;
	VI		Certain documents	cited				•	
	VII		Certain defects in t	he international app	lication		•	:	
	VIII		Certain observation	ns on the internation	al application				
									
Date of submission of the demand			Date of	f completion o	ı ırııs report	•			
11.	11.11.2003			02.07	.2004				
	Name and mailing address of the international preliminary examining authority:				Author	ized Officer			Josephine has Patenting P.
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465					Seelmann, M Telephone No. +49 89 2399-8335				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/03784

I. I	Bas	is c	of th	ne r	epor	t

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	_							
	Des	cription, Pages						
	1-43	3	as originally filed					
	Cla	ims, Numbers						
	1-23	3	received on 27.02.2004 with letter of 26.02.2004					
2.	With lang	n regard to the langu guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.					
	The	hese elements were available or furnished to this Authority in the following language: , which is:						
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).						
		the language of publication of the international application (under Rule 48.3(b)).						
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).						
3.	With inte	n regard to any nucle rnational preliminary	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the inte	rnational application in written form.					
		filed together with the international application in computer readable forms and the second s						
		furnished subsequer	ntly to this Authority in written form.					
		furnished subsequer	ntly to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
4.	The	amendments have r	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5.			n established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).					
		(Any replacement st report.)	neet containing such amendments must be referred to under item 1 and annexed to this					
3.	Add	litional observations.	if necessary:					

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- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-3,6-12,15-23

Inventive step (IS)

Yes: Claims

No: Claims

4,5,13,14

Industrial applicability (IA)

Yes: Claims

1-23

No: Claims

2. Citations and explanations

see separate sheet

Item V

Reasoned statement under Artikel 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

D1 US 5 145 980

D2 US 55 45 664

D3 EP 0 398 692 cited in the present application

V.3 Amendments

The definition provided in the amended claim 1 concerning the A parameter fullfills the requirements of article 6 PCT.

The present claim 1 was modified such that the scope has been reduced to compounds of formula (I) wherein:

$$X_1$$
, $X_5 = H$; X_2 , $X_4 = Hal$; $X_3 = R$;
or X_1 , $X_4 = H$; X_3 , $X_5 = Hal$; $X_2 = R$;
with $Z = CH$ or N when $Y = OCH_3$ or $Z = N$ when $Y = NHCH_3$.

These amendments correspond to the exclusion of the following originally disclosed possibilities: $1/X_1 = Hal or R$

$$2/X_2 = H$$

 $3/X_1, X_3 = H; X_2 = R$
 $4/X_1 = H; X_2, X_4, X_5 = Hal$
 $5/Z = CH \text{ when } Y = NHCH_3.$

The novelty-destroying compounds known from **D1** cover X_1 , $X_5 = CI$, F. Br; $X_3 = Me$ or X_3 , $X_5 = CI$, F, Br; $X_1 = R$ for the same activity as fungicides (i.e. disclaimer not allowable). The application as originally filed disclosed X_1 , $X_5 = H$; X_2 , $X_4 = Hal$; $X_3 = R$ in the case n = 0(claim 4 or page 4).

Accordingly there seems to be no support for the proposed amendments. These latter seem to be a generalization of the examples, contravening to the requirements of article 34(2)b) PCT.

Therefore the following issues of novelty and inventive step were dealt according to the original set of claims.

V.2 Novelty

As already outlined in the description, the teaching of D3 (claim 2) can be seen as generic in regards to the present application. The phenoxymethylphenyl derivatives of general formula (I) presently claimed are already known from the prior art, for instance:

D1: compounds N°1.197 to 1.202 in table 1

Accordingly the subject-matters of claims 1-3, 6-12 and 15-23 are not novel in view of D1.

V.3 Inventive step

The closest state of the art for the present application is represented by D1 disclosing structurally similar compounds which do not fall under the present application (claim 4) because of only the halogen positions on the phenyl ring: 2,6- or 2,4- (D1: compounds N°1.197 to 1.202) instead of 3,5-substitution in the present application (claim 4). Presently such a structural variation is alleged to lead to derivatives with the same qualitative activity/properties as those described in D1. In view of the experimental part and the other information as given in the description, it can be assumed that this problem has been solved for those compounds, wherein n = 0, $X_1 = X_5 = H$, $X_2 = X_4 = CI$ and $X_3 = R$, i.e. an alkoxy, alkoxyalkyl, alkenyloxy, cycloalkylalkoxy and benzyloxy groups with possible halogen substitution or n = 0, $X_1 = X_4 = H$, $X_3 = X_5 = CI$ and $X_2 = alkylenoxy$ substituted by halogen (cf. letter of applicant of 26.02.2003, table on pages 3-4).

The problem underlying the present application can, however, not be seen in the provision of further novel derivatives, because in view of the extremely close structural relationship to D1 compounds it is considered that the man skilled in the art would regard the new compounds of this application (claim 4) as being obvious alternatives to the known compounds.

Therefore, the problem underlying the present application should be seen in the provision of new derivatives having unexpected properties over those of the closest prior art compounds (D1). Comparative tests were performed between compounds 1.197 and 1.200 of D1 with those claimed in the present application (cf. letter of applicant of 26.02.2003, table on pages 3-4).

It was convincingly shown, as previously stated, that the modified position of the halogensubstitution with simultaneous presence of an oxy-moiety on the phenyl ring improves dramatically the fungicidal activity. Therefore if one has to make use of the argument that

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such a "minor" structural modifications could not be anticipated by the man skilled in the art to have such an influence on the sought activity, other more dramatic modifications as described in claim 1 cannot be considered as obvious or generalize without additional experimental evidence. Such a generalization could also lead to compounds having no effect at all. Accordingly only a reasonable generalization of the examples, not contravening to article 34(2)b) PCT, could be considered as inventive. Expressions such as heteroaryloxy or alkoxyiminoalkylidenoxy can be considered as a reasonable generalization, for instance!

The subject-matter of claim 4 and dependent claim 5 or related claims 13-14 do not therefore fulfill the requirements of Article 33(3) PCT.

Further comments:

The term "etc" is indefinite (cf. PCT Guidelines CIII-4.3a).